

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/508,759B  
Source: IFWP  
Date Processed by STIC: 8/28/06

# ***ENTERED***



IFWP

## RAW SEQUENCE LISTING

DATE: 08/28/2006

PATENT APPLICATION: US/10/508,759B

TIME: 09:54:43

Input Set : A:\A30215APGSEQ-amended.txt

Output Set: N:\CRF4\08282006\J508759B.raw

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3 <110> APPLICANT: APROGEN INC.
5 <120> TITLE OF INVENTION: HUMANIZED ANTIBODY AND PROCESS FOR PREPARING SAME
7 <130> FILE REFERENCE: PCA30215/APG
9 <140> CURRENT APPLICATION NUMBER: US/10/508,759B
10 <141> CURRENT FILING DATE: 2004-09-22
12 <150> PRIOR APPLICATION NUMBER: KR10-2002-0015708
13 <151> PRIOR FILING DATE: 2002-03-22
15 <160> NUMBER OF SEQ ID NOS: 38
17 <170> SOFTWARE: KopatentIn 1.71
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 345
21 <212> TYPE: DNA
22 <213> ORGANISM: Artificial Sequence
24 <220> FEATURE:
25 <223> OTHER INFORMATION: Variable region of humanized light chain HZVII
27 <400> SEQUENCE: 1
28 caggtccagc tgggtgcagtc tggagctgaa gtgaagaagc ctggggcctc agtgaagggt      60
30 tcctgcaaag cttctggcta caccttcacc agtgcttggg tgaactgggt gcgacaggcc      120
32 cctggacagg gtcttgagtg gatgggacgg atttatccta gtggtggaag cactagctac      180
34 gcacagaagt tccagggcag agtcacaatg actgcagaca aatccacgag cacagtctac      240
36 atggagctca gcagcctgag atctgaggac acggcggtgt attactgtgc aagagagtac      300
38 cgggttgccc gttggggcca aggaactctg gtcactgtct ctcca                      345
41 <210> SEQ ID NO: 2
42 <211> LENGTH: 115
43 <212> TYPE: PRT
44 <213> ORGANISM: Artificial Sequence
46 <220> FEATURE:
47 <223> OTHER INFORMATION: Variable region of humanized light chain HZVII
50 <400> SEQUENCE: 2
51 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Ala Pro Gly Ala
52   1           5           10           15
54 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Ala
55           20           25           30
57 Trp Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
58           35           40           45
60 Gly Arg Ile Tyr Pro Ser Gly Gly Ser Thr Ser Tyr Ala Gln Lys Phe
61           50           55           60
63 Gln Gly Arg Val Thr Met Thr Ala Asp Lys Ser Thr Ser Thr Val Tyr
64   65           70           75           80
66 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
67           85           90           95
69 Ala Arg Glu Tyr Arg Val Ala Arg Trp Gly Gln Gly Thr Leu Val Thr
70           100          105          110

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72 Val Ser Ala
73      115
76 <210> SEQ ID NO: 3
77 <211> LENGTH: 336
78 <212> TYPE: DNA
79 <213> ORGANISM: Artificial Sequence
81 <220> FEATURE:
82 <223> OTHER INFORMATION: Variable region of humanized light chain HZIV
84 <400> SEQUENCE: 3
85 gatatcgtga tgacccaaac tccactttct ttgtcgggta cccctggaca accagcctct      60
87 atctcttgca agtcaagtca ggcctcttta tataagtaatg gaaaaaccta tttgaattgg      120
89 ttattacaga agccaggcca gcctccacag cgcctaattct atctggtgtc taatcgggac      180
91 tctggagtcc ctgacagggt cagtggcagt ggatcaggaa cagattttac actgaaaatc      240
93 agcagagtgg aggctgagga tgttggagtt tattactgcg tgcaaggtac acattttcct      300
95 cagacgttcg gtggaggcac caaggtggaa atcaaa      336
98 <210> SEQ ID NO: 4
99 <211> LENGTH: 112
100 <212> TYPE: PRT
101 <213> ORGANISM: Artificial Sequence
103 <220> FEATURE:
104 <223> OTHER INFORMATION: Variable region of humanized light chain HZIV
106 <400> SEQUENCE: 4
107 Asp Ile Val Met Thr Gln Thr Pro Leu Ser Leu Ser Val Thr Pro Gly
108      1      5      10      15
110 Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
111      20      25      30
113 Asn Gly Lys Thr Tyr Leu Asn Trp Leu Leu Gln Lys Pro Gly Gln Pro
114      35      40      45
116 Pro Gln Arg Leu Ile Tyr Leu Val Ser Asn Arg Asp Ser Gly Val Pro
117      50      55      60
119 Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
120      65      70      75      80
122 Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Val Gln Gly
123      85      90      95
125 Thr His Phe Pro Gln Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
126      100      105      110
131 <210> SEQ ID NO: 5
132 <211> LENGTH: 26
133 <212> TYPE: DNA
134 <213> ORGANISM: Artificial Sequence
136 <220> FEATURE:
137 <223> OTHER INFORMATION: oligomer Ryu94
140 <400> SEQUENCE: 5
141 gagaattcac attcacgatg tacttg      26
144 <210> SEQ ID NO: 6
145 <211> LENGTH: 33
146 <212> TYPE: DNA
147 <213> ORGANISM: Artificial Sequence
149 <220> FEATURE:

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150 <223> OTHER INFORMATION: oligomer HUR43-1
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154 ctgctgcagc tggacctgac tctggacacc att 33
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158 <211> LENGTH: 33
159 <212> TYPE: DNA
160 <213> ORGANISM: Artificial Sequence
162 <220> FEATURE:
163 <223> OTHER INFORMATION: oligomer HUR44-1
166 <400> SEQUENCE: 7
167 caggctccagc tgcagcagtc tggacctgaa ctg 33
170 <210> SEQ ID NO: 8
171 <211> LENGTH: 33
172 <212> TYPE: DNA
173 <213> ORGANISM: Artificial Sequence
175 <220> FEATURE:
176 <223> OTHER INFORMATION: oligomer HUR45-1
179 <400> SEQUENCE: 8
180 tgggcccttg gtggaggctg cagagacagt gac 33
183 <210> SEQ ID NO: 9
184 <211> LENGTH: 33
185 <212> TYPE: DNA
186 <213> ORGANISM: Artificial Sequence
188 <220> FEATURE:
189 <223> OTHER INFORMATION: oligomer HUR46-1
192 <400> SEQUENCE: 9
193 gcctccacca agggcccatc ggtcttcccc ctg 33
196 <210> SEQ ID NO: 10
197 <211> LENGTH: 28
198 <212> TYPE: DNA
199 <213> ORGANISM: Artificial Sequence
201 <220> FEATURE:
202 <223> OTHER INFORMATION: oligomer HUR31
205 <400> SEQUENCE: 10
206 cagcggccgc tcatttacct ggggacag 28
209 <210> SEQ ID NO: 11
210 <211> LENGTH: 26
211 <212> TYPE: DNA
212 <213> ORGANISM: Artificial Sequence
214 <220> FEATURE:
215 <223> OTHER INFORMATION: oligomer Ryu86
218 <400> SEQUENCE: 11
219 caaagcttgg aagcaagatg gattca 26
222 <210> SEQ ID NO: 12
223 <211> LENGTH: 27
224 <212> TYPE: DNA
225 <213> ORGANISM: Artificial Sequence
227 <220> FEATURE:
228 <223> OTHER INFORMATION: oligomer HUR48

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231 <400> SEQUENCE: 12
232 caagatatcc ccacaggtac cagatac 27
235 <210> SEQ ID NO: 13
236 <211> LENGTH: 27
237 <212> TYPE: DNA
238 <213> ORGANISM: Artificial Sequence
240 <220> FEATURE:
241 <223> OTHER INFORMATION: oligomer HUR49
244 <400> SEQUENCE: 13
245 tgtggggata tcttgatgac ccaaact 27
248 <210> SEQ ID NO: 14
249 <211> LENGTH: 27
250 <212> TYPE: DNA
251 <213> ORGANISM: Artificial Sequence
253 <220> FEATURE:
254 <223> OTHER INFORMATION: oligomer HUR50
257 <400> SEQUENCE: 14
258 cacagatctt ttgatttcca gcttggt 27
261 <210> SEQ ID NO: 15
262 <211> LENGTH: 27
263 <212> TYPE: DNA
264 <213> ORGANISM: Artificial Sequence
266 <220> FEATURE:
267 <223> OTHER INFORMATION: oligomer HUR51
270 <400> SEQUENCE: 15
271 atcaaaagat ctgtggctgc accatct 27
274 <210> SEQ ID NO: 16
275 <211> LENGTH: 58
276 <212> TYPE: DNA
277 <213> ORGANISM: Artificial Sequence
279 <220> FEATURE:
280 <223> OTHER INFORMATION: oligomer CK1D
283 <400> SEQUENCE: 16
284 ggcgcgtcta gaattaacac tctcccctgt tgaagctctt tgtgacgggc gaactcag 58
287 <210> SEQ ID NO: 17
288 <211> LENGTH: 27
289 <212> TYPE: DNA
290 <213> ORGANISM: Artificial Sequence
292 <220> FEATURE:
293 <223> OTHER INFORMATION: oligomer YM001N
296 <400> SEQUENCE: 17
297 ccggaattca cattcacgat gtacttg 27
300 <210> SEQ ID NO: 18
301 <211> LENGTH: 16
302 <212> TYPE: DNA
303 <213> ORGANISM: Artificial Sequence
305 <220> FEATURE:
306 <223> OTHER INFORMATION: oligomer YM003
309 <400> SEQUENCE: 18

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Input Set : A:\A30215APGSEQ-amended.txt

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310	tgccccccaga ggtgct	16
313	<210> SEQ ID NO: 19	
314	<211> LENGTH: 33	
315	<212> TYPE: DNA	
316	<213> ORGANISM: Artificial Sequence	
318	<220> FEATURE:	
319	<223> OTHER INFORMATION: oligomer ym257	
322	<400> SEQUENCE: 19	
323	acgcattcag tgcttcttgg atgaactggg tga	33
326	<210> SEQ ID NO: 20	
327	<211> LENGTH: 31	
328	<212> TYPE: DNA	
329	<213> ORGANISM: Artificial Sequence	
331	<220> FEATURE:	
332	<223> OTHER INFORMATION: oligomer YM258	
335	<400> SEQUENCE: 20	
336	atccaagaag cactgaatgc gtagccagaa g	31
339	<210> SEQ ID NO: 21	
340	<211> LENGTH: 38	
341	<212> TYPE: DNA	
342	<213> ORGANISM: Artificial Sequence	
344	<220> FEATURE:	
345	<223> OTHER INFORMATION: oligomer YM004	
348	<400> SEQUENCE: 21	
349	ccaattcaaa gcggtttttc cattactata taagaggc	38
352	<210> SEQ ID NO: 22	
353	<211> LENGTH: 32	
354	<212> TYPE: DNA	
355	<213> ORGANISM: Artificial Sequence	
357	<220> FEATURE:	
358	<223> OTHER INFORMATION: oligomer YM009	
361	<400> SEQUENCE: 22	
362	gcagccaccg tacgtttgat ttccaccttg gt	32
365	<210> SEQ ID NO: 23	
366	<211> LENGTH: 39	
367	<212> TYPE: DNA	
368	<213> ORGANISM: Artificial Sequence	
370	<220> FEATURE:	
371	<223> OTHER INFORMATION: oligomer Ryu 166	
374	<400> SEQUENCE: 23	
375	ggatttgtct gcagtcattg tggctctgcc ctggaactt	39
378	<210> SEQ ID NO: 24	
379	<211> LENGTH: 27	
380	<212> TYPE: DNA	
381	<213> ORGANISM: Artificial Sequence	
383	<220> FEATURE:	
384	<223> OTHER INFORMATION: oligomer Hur 37	
387	<400> SEQUENCE: 24	
388	gacaaatcca cgagcacagt ctacatg	27

**VERIFICATION SUMMARY**

DATE: 08/28/2006

PATENT APPLICATION: US/10/508,759B

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Input Set : A:\A30215APGSEQ-amended.txt

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